

数学与系统科学研究院

计算数学所学术报告

**报告人: Prof. Yuan-wei QI
(University of Central Florida, USA)**

报告题目:

**Global Dynamics and Traveling
Fronts of Auto-catalytic Chemical
Reaction**

邀请人: 袁亚湘研究员

报告时间: 2009年5月15日(周五)

下午 4:00—5:00

报告地点: 科技综合楼三层 301

计算数学所报告厅

Abstract:

In this talk, I shall report some recent results on auto-catalytic chemical reaction of Quadratic and Cubic order. Using the combination of a priori estimate and Renormalization Group method, it is shown that sharp result on global dynamics with critical nonlinearity can be obtained. In addition, a much better bounds on minimum speed for traveling waves is established using novel approach and generating of waves from an initial setup is rigorously proved.

欢迎大家参加！